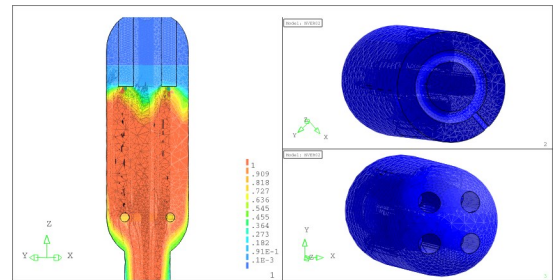


Process Intensification Laboratory

Research:

Green Engineering Theme

- Intensification of Liquid-Liquid processes
- Electrically enhanced processes
- Catalysis in the presence of electrical fields
- Fluid dynamics and finite element modeling
- Biologically enhanced ion exchange



Electrically intensified liquid-liquid reactor - showing simulations of dispersion cloud and concentration profile during reaction

J. Petera, L.R. Weatherley, D. Rooney, K. Kaminski (2009) Computers and Chemical Engineering 33, 144–161

Collaborating Faculty:

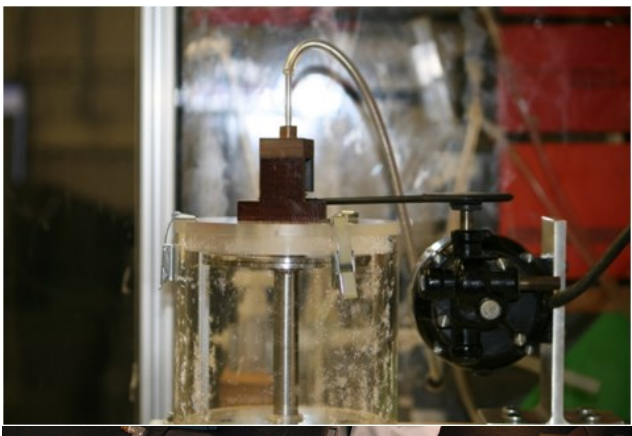
Dr Aaron Scurto

Dr RV Chaudhari

Dr Jerzy Petera (Lodz University of Technology)

Equipment:

- ◇ L/L Contactors and test cells
- ◇ Spinning disk contactors
- ◇ Ion Exchange columns
- ◇ High voltage equipment
- ◇ Gas Chromatography



Impinging jet spinning disk L/L contactor

Director:

Laurence R Weatherley Ph.D.
University of Cambridge, 1973
Distinguished Professor,
Chemical & Petroleum
Engineering
lweather@ku.edu



Courses:

- C&PE 111 Intro to Chem Eng
- C&PE 715 Green Chem and Engineering
- C&PE 523 Mass Transfer
- C&PE 613 Chemical Engineering Design
- C&PE 651 Undergraduate Research (Study Abroad)

Go to cpe. engr.ku.edu to learn more.

